

### **Amendments to the Claims**

This listing of claims will replace all prior versions and listings of claims in the application:

#### **Listing of Claims:**

1-29 (Cancelled)

30. (currently amended) A composite (M) comprising:

a) at least 75 vol% of a mixed electronic/oxygen O<sup>2-</sup> anionic conducting compound (C<sub>1</sub>) which, at the use temperature, are in the form of a crystal lattice having oxide ion vacancies, compound (C<sub>1</sub>) being a perovskite compound of a formula selected from the group consisting of:

- 1)  $\text{La}_{(1-x-u)}\text{Sr}_x\text{Al}_u\text{Fe}_{(1-v)}\text{Ti}_v\text{O}_{3-\delta}$ ,
- 2)  $\text{La}_{(1-x-u)}\text{Sr}_x\text{Al}_u\text{Fe}_{(1-v)}\text{Ga}_v\text{O}_{3-\delta}$ ,
- 3)  $\text{La}_{(1-x)}\text{Sr}_x\text{Fe}_{(1-v)}\text{Ti}_v\text{O}_{3-\delta}$ ,
- 4)  $\text{La}_{(1-x)}\text{Sr}_x\text{Ti}_{(1-v)}\text{Fe}_v\text{O}_{3-\delta}$ ,
- 5)  $\text{La}_{(1-x)}\text{Sr}_x\text{Fe}_{(1-v)}\text{Ga}_v\text{O}_{3-\delta}$  or
- 6)  $\text{La}_{(1-x)}\text{Sr}_x\text{FeO}_{3-\delta}$

where:

$$0 < x \leq 0.5;$$

$$0 \leq u \leq 0.5;$$

$$(x + u) \leq 0.5;$$

$$0 \leq y \leq 0.9;$$

$$0 \leq v \leq 0.9;$$

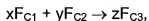
$$0 \leq (y + v) \leq 0.9; \text{ and}$$

w is such that the structure in question is electrically neutral;

b) from at least 0.1 vol% but not more than 10 vol% of a compound (C<sub>2</sub>) chosen from oxide-type materials, calcium oxide (CaO), aluminum oxide (Al<sub>2</sub>O<sub>3</sub>), zirconium

~~oxide (ZrO<sub>2</sub>), titanium oxide (TiO<sub>2</sub>), mixed strontium aluminum oxides SrAl<sub>2</sub>O<sub>4</sub> selected from the group consisting of magnesium oxide (MgO) and or Sr<sub>3</sub>Al<sub>2</sub>O<sub>6</sub>, mixed barium titanium oxide (BaTiO<sub>3</sub>), mixed calcium titanium oxide (CaTiO<sub>3</sub>), La<sub>0.5</sub>Sr<sub>0.5</sub>Fe<sub>0.9</sub>Ti<sub>0.1</sub>O<sub>3.5</sub> or La<sub>0.6</sub>Sr<sub>0.4</sub>Fe<sub>0.9</sub>Ga<sub>0.1</sub>O<sub>3.5</sub>; and~~

c) from 0 vol% to 2.5 vol% of a compound (C<sub>3</sub>) produced from at least one chemical reaction represented by the equation:



in which equation F<sub>C1</sub>, F<sub>C2</sub> and F<sub>C3</sub> represent the respective crude formulae of compounds (C<sub>1</sub>), (C<sub>2</sub>) and (C<sub>3</sub>) and x, y and z represent rational numbers greater than or equal to 0.

31. (previously presented) The composite of claim 30, in which grains of compound (C<sub>2</sub>) have an equiaxed shape with a diameter ranging from 0.1 µm to 5 µm.

32. (currently amended) The composite of claim 30, in which the volume fraction of compound (C<sub>3</sub>) does not exceed 1.5% ~~and more particularly does not exceed 0.5% by volume.~~

33. (Previously presented) The composite of claim 32, in which the volume fraction of compound (C<sub>3</sub>) in the composite tends toward 0.

34. (canceled)

35. (currently amended) The composite of claim ~~34~~ 30, in which the volume fraction of compound (C<sub>2</sub>) does not exceed 5%.

36. (canceled)

37. (canceled)

38. (canceled)

39. (canceled)

40. (canceled)

41. (canceled)

42. (canceled)

43. (canceled)

44. (canceled)

45. (canceled)

46. (previously presented) The composite of claim 30, of formula:

a)  $\text{La}_{0.6} \text{Sr}_{0.4} \text{Fe}_{0.9} \text{Ga}_{0.1} \text{O}_{3-\delta}$ , or

b)  $\text{La}_{0.5} \text{Sr}_{0.5} \text{Fe}_{0.9} \text{Ti}_{0.1} \text{O}_{3-\delta}$ .

47. (canceled)

48. (canceled)

49. (canceled)

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50. (previously presented) The composite of claim 30, wherein compound (C<sub>2</sub>) is MgO.